

# DEVICE FOR DETECTING A FLOW OF POWDER PARTICLES

## Abstract

A method and device is provided for detecting a flow of particles, particularly paint particles, in a powder transportation line connected to a powder spray gun. The powder transportation line of the device includes a portion having an interior face provided with an electrostatically friction-charging material. The portion of the transportation line may be located upstream or downstream of the pump or within the pump itself. The transportation line portion is in electrical communication with a unit for sensing electrical signals. When the powder particles flow through the transportation line portion, an electrical charge is generated in the portion as a result of the friction between the particles and the friction-charging material. This electrical charge is detected by the sensing unit.